

## INTERNATIONAL SEARCH REPORT

Inte Application No  
PCT/IB2004/000382

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B09B3/00 B29B17/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B09B B29B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/94457 A (DU PONT CANADA) 13 December 2001 (2001-12-13) page 5, line 8 - page 7, line 23; claims 1,2 -----	1,17,34, 35
X	US 5 559 159 A (SUBLETT BOBBY J ET AL) 24 September 1996 (1996-09-24) abstract column 2, line 3 - line 17; example 1	1,17,34, 35
X	US 5 789 636 A (NIEMANN KLAUS ET AL) 4 August 1998 (1998-08-04) column 7, line 43 - line 56 column 3, line 53 - column 4, line 24; figure 1 column 2, line 61 - line 62 ----- -/-	17-19,35

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## ° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

6 December 2004

Date of mailing of the International search report

04.01.2005

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PCT/IB2004/000382

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 876 644 A (MOORE TONY CLIFFORD ET AL) 2 March 1999 (1999-03-02) column 3, line 1 - line 28 -----	1-16,34, 36
A	US 5 405 429 A (REY THEO ET AL) 11 April 1995 (1995-04-11) abstract -----	1
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 03, 31 March 1999 (1999-03-31) & JP 10 332118 A (MITSUI ENG & SHIPBUILD CO LTD), 15 December 1998 (1998-12-15) abstract -----	1-16,34, 36
A	US 5 223 544 A (JENKS RANDY S ET AL) 29 June 1993 (1993-06-29) column 3, line 34 - column 4, line 35 -----	17-19

**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/IB2004/000382**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

1-20, 26-28, 34-36

4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-16,34,36

Process for recycling waste including depolymerising step  
and repolymerising step  
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2. claims: 17-20,26-28,35,36

System for recycling waste including depolymerising step  
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3. claims: 21-25

Multistage reactor  
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4. claims: 29-31

Turbo-electrophotolytic reactor  
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5. claim: 32

Super-oxidising mixture  
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6. claim: 33

Repolymerisation mixture  
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**INTERNATIONAL SEARCH REPORT**

 Inte Application No  
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		ES	2149810 T3	16-11-2000
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